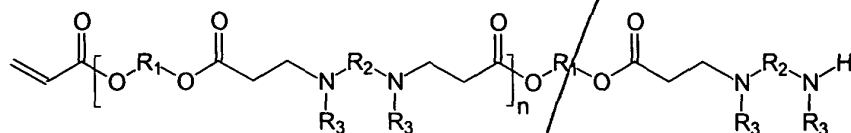
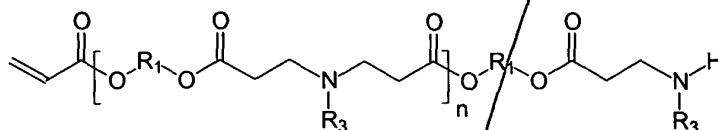


We claim

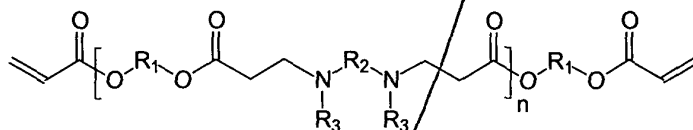
1. Dental compositions comprising at least a polymerizable monomer and/or at least a polyaminoester of formulas 1 to 6, pigments, organic and/or inorganic fillers, initiators and stabilizers.



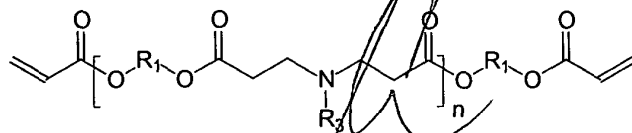
1



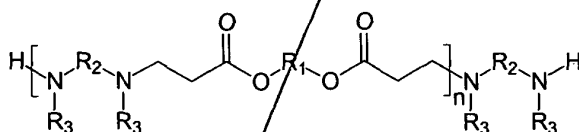
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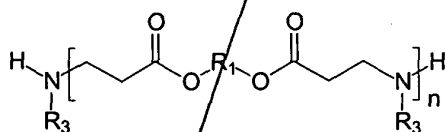
3



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5



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wherein

R₁ denotes is a difunctional substituted or unsubstituted C₁ to C₁₈ alkylene, difunctional substituted or unsubstituted cycloalkylene, difunctional substituted or unsubstituted C₅ to C₁₈ arylene or heteroarylene, difunctional substituted or

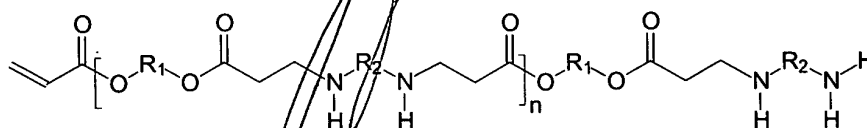
unsubstituted C₅ to C₁₈ alkylarylene or alkylheteroarylene, difunctional substituted or unsubstituted C₇ to C₃₀ alkylene arylene,

R₂ denotes is a difunctional substituted or unsubstituted C₁ to C₁₈ alkylene, difunctional substituted or unsubstituted cycloalkylene, difunctional substituted or unsubstituted C₅ to C₁₈ arylene or heteroarylene, difunctional substituted or unsubstituted C₅ to C₁₈ alkylarylene or alkylheteroarylene, difunctional substituted or unsubstituted C₇ to C₃₀ alkylene arylene,

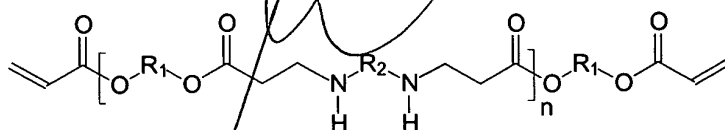
R₃ denotes H or a substituted or unsubstituted C₁ to C₁₈ alkylene, substituted or unsubstituted cycloalkylene, substituted or unsubstituted C₅ to C₁₈ arylene or heteroarylene, substituted or unsubstituted C₅ to C₁₈ alkylarylene or alkylheteroarylene, substituted or unsubstituted C₇ to C₃₀ alkylene arylene,

n is an integer.

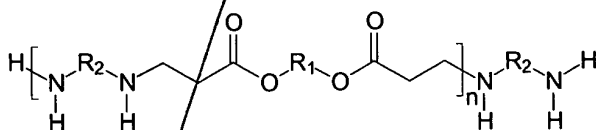
2. Dental composition of claim 1, wherein said polyaminoester is characterized by the following formulas



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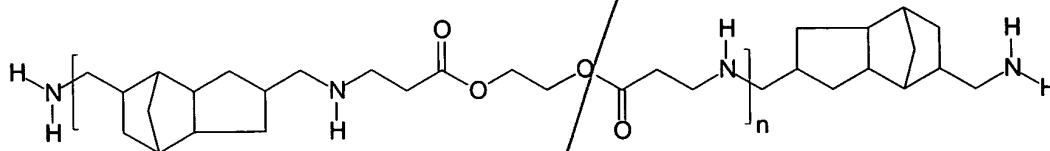
wherein

R₁ denotes is a difunctional substituted or unsubstituted C₁ to C₁₈ alkylene, difunctional substituted or unsubstituted cycloalkylene, difunctional substituted or unsubstituted C₅ to C₁₈ arylene or heteroarylene, difunctional substituted or unsubstituted C₅ to C₁₈ alkylarylene or alkylheteroarylene, difunctional substituted or unsubstituted C₇ to C₃₀ alkylene arylene,

R₂ denotes is a difunctional substituted or unsubstituted C₁ to C₁₈ alkylene, difunctional substituted or unsubstituted cycloalkylene, difunctional substituted or unsubstituted C₅ to C₁₈ arylene or heteroarylene, difunctional substituted or unsubstituted C₅ to C₁₈ alkylarylene or alkylheteroarylene, difunctional substituted or unsubstituted C₇ to C₃₀ alkylene arylene, and

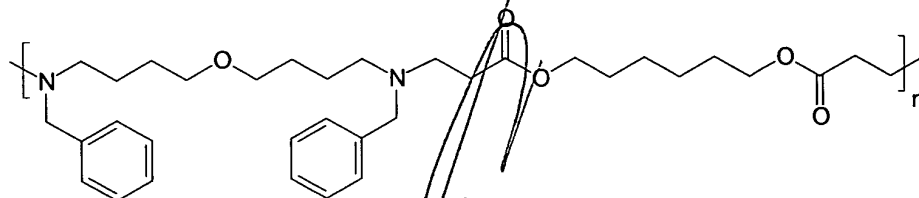
n is an integer.

3. Dental composition of claim 1, wherein said polyaminoesters preferably is characterized by the following formula



wherein n is an integer.

4. Dental composition of claim 1, wherein said polyaminoesters preferably is characterized by the following formula



wherein n is an integer.

5. Dental composition of claim 1, wherein said polyaminoesters are composed of polyamines and bis- or polyacrylates.

6. Dental composition of claim 1, wherein said polyaminoesters are copolymerized with monomers that are usable for step-growth polymerization, preferably with di- or polyepoxides or di- or polyisocyanates.

7. Dental composition of claim 1, wherein said polymerizable monomer preferably is hydroxyethyl methacrylate, hydroxyethylacrylate, hydroxypropyl

methacrylate, ethyleneglykol dimethacrylate, diethyleneglykol dimethacrylate, triethyleneglykol dimethacrylate, 3,(4),8,(9)-Dimethacryloyl-(oxymethyl)-tricyclo-5.2.1.0^{2,6} decane, trimethylolpropane triacrylate or trimethylolpropane trimethacrylate, N,N'-dimethylaminoethyl methacrylate.

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8. Dental composition of claim 1, wherein said fillers are functionalized or non-functionalized organic polymers or wherein said fillers are inorganic or organic, reactive or non-reactive, surface modified or non-modified glasses such as polymer granulate or a combination of organic and/or inorganic fillers, strontium aluminosilicate glass, La₂O₃, BiPO₄, ZrO₂, BaWO₄, CaWO₄, SrF₂, Bi₂O₃.

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9. Dental composition of claim 1, applicable as root canal sealing material.

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10. Dental composition of claim 1, applicable as temporary crown & bridge material.

Add
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